

AMENDMENTS TO THE CLAIMS

10/538722

JC17 Rec'd PCT/PTO 13 JUN 2005

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) An arrangement for interconnection of two or more printed circuit board's communicating with each other over a time division multiplex data bus, each including a number of loads transferring data in both receive and transmit direction, ~~comprising:~~ characterized in
a local time division multiplex data bus in each printed circuit board to which the associated number of loads are connected,
an intermediate Central Processing Unit controlled logic in each direction connecting a each local time division multiplex data bus to a global time division multiplex data bus, which logic includes a First-In-First-Out buffer through which synchronous data from the respective local time division multiplex data bus or the global time division multiplex data bus ~~data bus~~ is being written in and read out to the respective local time division multiplex data bus or the global time division multiplex data bus introducing a phase difference providing a total delay for any data travelling from a the respective local time division multiplex data bus to the global time division multiplex data bus and back to a the respective local time division multiplex data bus being of a controllable dimension equal to an integer number of data frames.

2. (Currently Amended) The arrangement as defined in claim 1, ~~characterized in that wherein~~ the global time division multiplex data bus is a back plane time division multiplex data bus, and said arrangement is implemented in a circuit switched node.

3. (Currently Amended) The arrangement as defined in claim 2, ~~claims,~~ ~~characterized in that wherein~~ the logic further includes a first and a second time slot

counter, the first counter addressing a first data location in the First-In-First-Out buffer into which, in case of receive direction, time slot data from a local time division multiplex data bus is to be written, or out of which, in case of transmit direction, time slot data to a local time division multiplex bus is to be read, the second counter addressing a second data location in the First-In-First-Out buffer into which, in case of transmit direction, time slot data from the global time division multiplex bus is to be written, or out of which, in case of receive direction, time slot data to the global time division multiplex bus is to be read, wherein the phase difference between the first and the second time slot counter represents a preferred part of said total delay caused by the logic of the respective direction.

4. (Currently Amended) The arrangement as defined in claim 3, ~~characterized in that~~ wherein the first counter is incremented by a first clock (~~TDM_CLK_LOCAL~~) corresponding to the current local time division multiplex data bus and initialised by a first frame synchronisation signal (~~FSYNC_LOCAL~~) indicating the start of each frame in the current local time division multiplex data bus, the second counter is incremented by a second clock (~~TDM_CLK_EXTERN~~) corresponding to the global time division multiplex data bus and initialised by a second frame synchronisation signal (~~FSYNC_EXTERN~~) indicating the start of each frame in the global time division multiplex data bus.

5. (Currently Amended) The arrangement as defined in claim 4, ~~characterized in that~~ wherein the first clock and frame synchronisation signal is derived from the second clock and frame synchronisation signal, adapted to provide said preferred part of said total delay caused by the logic of the respective direction.

6. (Currently Amended) The arrangement as defined in claim 3, ~~one of the claims 3–5, characterized in that~~ wherein the logic further includes a table including one bit per data location in the First-In-First-Out buffer, wherein, in case of transmit direction, if a first logic value is assigned to the data location addressed by the first counter, reading of the content in that data location to the certain local time division

multiplex data bus is enabled, in contrast to a second logic value in which case reading is disabled, and in case of receive direction, if a first logic value is assigned to the data location addressed by the second counter, reading of the content in that data location to the global time division multiplex data bus is enabled, in contrast to a second logic value in which case reading is disabled.

7. (Currently Amended) The arrangement as defined in claim 3, ~~one of the claims 3—6, characterized in that~~ wherein the preferred part of said total delay caused by the logic of the receive direction is the duration of one frame minus the preferred part of said total delay caused by the logic of the transmit direction.

8. (Currently Amended) The arrangement as defined in claim 7, ~~characterized in that~~ wherein the preferred part of said total delay caused by the logic of the transmit direction is the duration of 8 or 16 time slots.

9. (Currently Amended) The arrangement as defined in claim 1, ~~one of the preceding claims, characterized in that~~ wherein the circuit switched node is a Base Station Controller (BSC) or a switch in any circuit switched enabled data or telecommunication network.